CONGRESSIONAL & REGULATORY TRANSMITTAL COVER LETTER

SUBMITTED BY: Citizen Systems Architect & Independent Researcher
DATE: May 29, 2026
REGULATORY REFERENCE: FERC Docket No. RM26-4-000 (Large Load Interconnections) / Federal Power Act (FPA) Sections 205 & 206

TO THE ATTENTION OF:

- **The Federal Energy Regulatory Commission (FERC)**
  Attn: Office of the Commission, 888 First Street, NE, Washington, DC 20426
- **The U.S. Senate Committee on Energy and Natural Resources**
  Attn: Committee Leadership, 304 Dirksen Senate Office Building, Washington, DC 20510
- **The U.S. House Committee on Energy and Commerce**
  Subcommittee on Energy, Climate, and Grid Security, 2125 Rayburn House Office Building, Washington, DC 20515

SUBJECT: TRANSITION PROTOCOL FOR HIGH-DENSITY DATA INFRASRUCTURE: OPEN-SOURCE TECHNICAL RECLAMATION MANDATE (PROJECT PHOENIX)

Distinguished Public Officials and Commission Members,
I am submitting the enclosed technical architecture blueprint, **Project Phoenix**, for immediate legislative integration and municipal zoning adoption. This document outlines a definitive, open-source engineering pathway to transition massive hyperscale data centers from localized environmental liabilities into active, regenerative assets for our regional electric grids, agricultural sectors, and community watersheds.
As representatives of the public interest, you are currently confronting an unprecedented crisis: corporate technology entities are monopolizing domestic power grids, straining local aquifer levels, and dropping localized emissions via legacy diesel backup systems. When left unregulated, these practices force local ratepayers to subsidize infrastructure upgrades while shouldering the long-term health and environmental liabilities.
This infrastructure must adapt to the authority of the public, not the other way around.
The enclosed architecture leverages proven, American-made, off-the-shelf industrial hardware to eliminate these systemic vulnerabilities. By replacing evaporative water consumption with supercritical CO_2 (sCO_2) loops, implementing phase-change cryogenic freeze-crystallization for agricultural water purification, utilizing solid-state transformers for peak-shaving grid buffering, and implementing dynamic phase-inversion for biological EMF cancellation, this framework establishes a baseline for non-poisonous, high-density infrastructure computing.
To immediately verify and implement these solutions without relying on the closed, proprietary consultations of the tech monopolies themselves, your administrative staff is directed to immediately engage the following independent domestic engineering experts:

1. **On Supercritical Heat Fluid Dynamics:** *Dr. David Allison & The Advanced Power Systems Division* at the **Southwest Research Institute (SwRI)** (San Antonio, TX) — the nation's premier applied research authority on closed-loop sCO_2 machinery.
2. **On Solid-State Interconnection & Power Purity:** *The Bulk Power System Awareness Division* at the **North American Electric Reliability Corporation (NERC)** in conjunction with the solid-state power electronics team at **Eaton Corporation** (Cleveland, OH / Raleigh, NC hubs).
3. **On Thermal Battery Storage & Cryogenic Purification:** *Dr. Ravi Prasher & The Energy Technologies Area* at the **Lawrence Berkeley National Laboratory (LBNL)** (Berkeley, CA).

MANDATORY LEGISLATIVE REMEDY & ANTI-CAPTURE DIRECTIVE

To prevent the technological components of this architecture from being captured under monopolistic software subscriptions or proprietary corporate patents, I urge your committees to exercise your statutory authority under **Section 1211 of the Energy Policy Act** and **Sections 205/206 of the Federal Power Act** to mandate the following permitting requirement:
"Any federal, state, or municipal agency granting an interconnection or land-use permit for a data infrastructure asset exceeding 20 Megawatts must condition that approval upon the deployment of an **Open-Source Utility Interface**. The public utility and local regulatory authority shall retain exclusive, sovereign ownership over the physical Solid-State Transformer (SST) boundaries and the public, immutable environmental telemetry arrays (The Aegis Protocol). Proprietary software-locking or subscription-based licensing of core utility interactions by private tech operators is strictly prohibited."
This blueprint has been intentionally published to the global digital commons under a **Creative Commons Attribution-ShareAlike 4.0 International License (CC BY-SA 4.0)**. It is unencumbered by private corporate capture and stands ready for immediate codification into local zoning ordinances and federal utility mandates.
The technical capacity to preserve our communities, rehydrate our agricultural valleys, and maintain structural sovereignty is entirely within your hands. I remain available to provide comprehensive technical testimony to your committees to accelerate this transition.
Respectfully submitted,
Paul Brian Statchen
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Santa Cruz, California
Open-Source Repository Archive:
https://github.com/paulstatchen10-ux/project_phoenix/blob/main/README.md
https://gemini.google.com/gem/1nF37NtaIaZUosxVTl6ZPL1w9VPSXX0fV?usp=sharing

Technical Packet Enclosures:

- *Section 1–4: Closed-Loop Thermodynamic Architecture & Cryogenic Water Logistics Matrix*
- *Section 5–6: Active Phase-Inversion EMF Harmonization & Single-Point Star Grounding Specifications*
- *Section 7–9: Hydrogen Backup Fuel Cell & ISO 14044 Modular Hardware Sourcing Directives*
- *Addendum: American Technology Sourcing Directory & 10-Year Capital Optimization ROI Analysis*